

# Pyramid™ PEEK KD2550-NT

Polyetheretherketone

Polymics, Ltd.

## Message:

Pyramid™ PEEK KD2550-NT is a Polyetheretherketone (PEEK) product filled with 30% ptfe fiber. It is available in North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	PTFE Fiber,30% Filler by Weight		
Features	Lubricated		
Appearance	Grey		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	81		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength (Break)	72.4	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	3240	MPa	ASTM D790
Flexural Strength (Yield)	124	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.080		
vs. Itself - Static	0.10		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	171	°C	ASTM D648
Glass Transition Temperature	143	°C	DSC
Melting Temperature	343	°C	DSC
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94

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